

AMSAT News Service Weekly Bulletins

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AMSAT NEWS SERVICE

ANS-127

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:  
ans-editor@amsat.org

\*\*\*\*\* AMSAT 2006 Space Symposium \*\*\*\*\*

The AMSAT web team has posted informational pages on the AMSAT web site. You can find the announcement with many links at:  
<http://www.amsat-org/amsat-new/symposium>

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SB SAT @ AMSAT \$ANS-127.01

Reminder - Opportunities to Participate With AMSAT at Dayton

AMSAT News Service Bulletin 127.01

>From AMSAT HQ SILVER SPRING, MD.

May 7, 2006

To All RADIO AMATEURS

BID: \$ANS-127.01

The main AMSAT Forum at the 2006 Dayton Hamvention will be held Saturday morning, May 20th, from 8:15 AM to 10:45 AM in Forum Room 1. We have a great program scheduled so come by and spend Saturday morning with us to find out the most up to date information on P3E, EAGLE, AO-51, ARISS and AMSAT.

Barry Baines, WD4ASW, AMSAT's VP-Marketing & User Services, will moderate the forum which includes these topics:

1. Rick Hambly, W2GPS, President, AMSAT-NA "Phase 3-E Satellite Design and Development Status."
2. Jim Sanford, WB4GCS, EAGLE Project Manager "Eagle Project Overview and Status Report."
3. EAGLE Project Development Team "Technology Update: Software Defined Transponder, Internal Housekeeping Unit, Energy Storage Experiments, and Structure Analysis."
4. Gould Smith, WA4SXM, Director Field Operations, AMSAT-NA "Introduction to AO-51 Operation with a Command Station Update."
5. Frank Bauer, KA3HDO, VP-Human Space Flight, AMSAT-NA "ARISS & SuitSat: Current Status & Future Opportunities."

Special emphasis will be placed on the status of the AMSAT-NA EAGLE satellite project and the AMSAT-DL P3E satellite.

The AMSAT Educator's Forum will be held Saturday from 11:30 to 12:15 AM in Forum Room 5 where Dr. H. Paul Shuch, N6TX, Director of Education of AMSAT-NA will host "Shared Experiences of Using Satellites in the Classroom."

Live satellite demonstrations will be another AMSAT feature at Dayton. Drew Glasbrenner, K04MA; Keith Pugh, W5IU and other volunteers will be making live satellite contacts Friday, Saturday and Sunday during the Dayton Hamvention. Contacts on both the FM and SSB satellites will be demonstrated outside the Ball Arena entrance, just a short distance from the AMSAT booth.

AMSAT will also be demonstrating operation through the future Eagle and P3E SDX (Software Defined Transponder) located in the AMSAT booth. Bob McGwier, N4HY, Tom Clark, K3IO and Howard Long, G5LVB will have an SDX operating and also have live displays of signals in the 50 kHz pass band.

While you are in town plan to take advantage of AMSAT's Thursday night 'Pizza and Suds' gathering at Mario's Piazza. The Friday night Banquet will be at the Amber Rose. Contact Nancy Makley, kc8gyw@amsat.org to make your reservations for both events.

Gould Smith, AMSAT Director Field Operations, issued a call for volunteers at Dayton 2006, "We are looking for a few good men or women to help at the AMSAT booth during the Dayton Hamvention. The booth will be open Friday May 19th from 9 AM to 6 PM, Saturday May 20th, 8 AM to 5 PM and Sunday 8 AM to 1 PM.

We need people to answer questions about satellite operation, take donations for publications and trinkets, memberships and renewals, demonstrate software and assist with satellite demos. Please volunteer for a two hour shift each day while you are attending the Hamvention. If you can only find an hour, that will also be welcomed. Sign up in advance by sending Gould an email at: wa4sxm@amsat.org.

Many more details of AMSAT at Dayton can be found on-line at <http://www.amsat.org>. Follow the Dayton links.

Gould, WA4SXM  
AMSAT Director Field Operations

[ANS thanks Gould, WA4SXM, AMSAT Director Field Operations for the above information.]

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SB SAT @ AMSAT \$ANS-127.02  
2006 AMSAT-NA Space Symposium Call for Papers: First Announcement

AMSAT News Service Bulletin 127.02  
>From AMSAT HQ SILVER SPRING, MD.  
May 7, 2006  
To All RADIO AMATEURS  
BID: \$ANS-127.02

Invitation: Speakers are invited to submit and present papers dealing with the science of Amateur Radio Satellites and associated technologies for the AMSAT 2006 Space Symposium. The Symposium will be held at the Crowne Plaza

Hotel in Foster City, California, approximately 10km south of San Francisco International Airport.

Since the 2005 Symposium was cancelled due to hurricane damage caused by hurricanes Katrina and Rita, speakers originally scheduled for the 2005 Symposium are invited to re-submit papers for the 2006 Symposium.

For more information please refer to:

<http://www.amsat.org/amsat-new/symposium/2006CallForPapers.php>

Topics: Recommended topics include but are not limited to the following categories:

- . AMSAT P3E
- . AMSAT Eagle
- . Microsatellite Projects
- . Cubesat and Nanosatellite Projects
- . ARISS
- . Attitude Determination and Control
- . Propulsion
- . Communications
- . Mechanical
- . Antennas
- . Groundstations
- . Digital Modes
- . Education and Outreach
- . Launch Opportunities
- . Status Reports

Other Activities:

- . The AMSAT Board of Directors will meet on 5-6 October.
- . The AMSAT Annual General Meeting (AGM) will be held on 6 October.
- . AMSAT International will meet 8 October
- . The IARU Satellite Committee will meet during the Symposium and will hold a public round table discussion on frequency coordination on 8 October
- . The ARISS International Delegates Meeting will be held on 9-10 October
- . "Birds of a Feather" sessions (BOFS) will be available on request

Deadline: Applications to present papers must be submitted by 15 July 2006. Papers must be submitted no later than 1 August 2006.

Procedure: The planning committee has created an online registration system where you can submit your abstract and track it. Using this system you will allow you to submit your paper and any subsequent changes online.

Visit the 2006 Symposium Paper Registration webpage for instructions:

<http://www.amsat.org/amsat-new/symposium/2006PapersProcedure.php>

Organizer: Project OSCAR. Contact Emily Clarke, N1DID for additional information

Venue: See the 2006 Space Symposium web page for additional information about

the venue: <http://www.amsat.org/amsat-new/symposium/>

[ANS thanks Emily, N1DID for the above information]

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SB SAT @ AMSAT \$ANS-127.03

SuitSat is Still in the News

AMSAT News Service Bulletin 127.03

>From AMSAT HQ SILVER SPRING, MD.

May 7, 2006

To All RADIO AMATEURS

BID: \$ANS-127.03

This week, Frank Bauer, KA3HDO who is the ARISS International Chairman and AMSAT's V.P. for Human Spaceflight Programs provided an update on SuitSat, the amateur radio space suit that continues to inspire the world.

Frank said, "SuitSat-1's re-entry is coming few weeks from now. Would anyone like to enter a "Chicken Little" contest?" For those unfamiliar with this term, it refers to the "sky is falling" from the Chicken Little story. You are invited to pick the date that SuitSat-1 will fall from the sky. Amateurs have begun posting their Chicken Little dates on-line at the AMSAT bulletin board: [amsat-bb@amsat.org](mailto:amsat-bb@amsat.org). The winner is the person who picks the date closest to the re-entry event. Prizes include bragging rights as well as the fame and notoriety associated with successful re-entry

prognastication.

Frank also noted that SuitSat-1 is still being featured in the popular press:

- + The 2006 "100 Best" of everything as compiled by Reader's Digest includes the "Best Empty Suit"--SuitSat. In the paper edition, SuitSat is listed as the 25th best. It can also be viewed on the Reader's Digest web site. To view the write up (38th item from the top), see:  
<http://www.rd.com/content/openContent.do?contentId=26667>

- + Popular Science plans to highlight SuitSat in an upcoming magazine.

- + Boys Life (scouting magazine) will have an article and pictures in the next couple of months.

[ANS thanks Frank, KA3HDO for the above information]

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SB SAT @ AMSAT \$ANS-127.04

AMSAT Awards

AMSAT News Service Bulletin 127.04

>From AMSAT HQ SILVER SPRING, MD.

May 7, 2006

To All RADIO AMATEURS

BID: \$ANS-127.04

Bruce Paige, KK5D0, who is AMSAT's Director Contests and Awards says this week, congratulations go out to all of the following.

Phet Imtonkhum HS4POV AMSAT Satellite Communicators Club Award  
Stefan Meszaros DL3SEM AMSAT Satellite Communicators Club Award  
Richard Nelson W2ACY AMSAT Satellite Communicators Club Award  
Chris Pakulski KB8FNC AMSAT Satellite Communicators Club Award

Terry Moorby VE3DIJ South Africa AMSAT Satellite Communication  
Achievement Award #US95

Yoshi Esaki JA6BX W4AMI Award #42  
Rick Behma VE4AMU W4AMI Award #43

These are the last of the 51 on 51 Awards as the closing period for

submissions was April 30, 2006.

|               |        |                    |
|---------------|--------|--------------------|
| Kyle Yoksh    | K0KN   | 51 on 51 Award #67 |
| Yohsio Esaki  | JA6BX  | 51 on 51 Award #68 |
| Iji Yoshitomo | JA6PL  | 51 on 51 Award #69 |
| Ricky Behma   | VE4AMU | 51 on 51 Award #70 |

To see all the awards visit <http://www.amsat.org>.

[ANS thanks Bruce, KK5D0 for the above information]

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SB SAT @ AMSAT \$ANS-127.05

ARISS Status for the Week of May 1, 2006

AMSAT News Service Bulletin 127.05

>From AMSAT HQ SILVER SPRING, MD.

May 7, 2006

To All RADIO AMATEURS

BID: \$ANS-127.05

#### 1. Successful School Contacts

Bob Jones High School in Madison Alabama had an ARISS contact on Monday, May 1 via the telebridge station VK5ZAI in Australia.

Jaanimmari School in Kuujuaq, Quebec, Canada had an ARISS contact on Thursday, May 4 also via the telebridge station VK5ZAI in Australia.

#### 2. ARISS Members Participated in Space Day on May 5

ARISS members participated in the Steven F. Udvar-Hazy Center Space Day activities on Friday, May 5. An AMSAT exhibition booth was set up at the event and included an ARISS display. Representatives displayed ISS Ham hardware and informed students and the general public of the ARISS program. They also talked about how AMSAT builds small satellites and displayed the Cal-Poly Cubesat model and picosats.

#### 3. ARISS School Demonstrates Satellite Communications

On Monday, April 24, Larry Phelps, K4OZS, demonstrated satellite communications to two classes of fifth grade students at Romeo Elementary School in Dunnellon, Florida using the AMSAT Oscar (AO-51) satellite repeater. He received calls from many stations to the delight of the students. This demonstration was part of the preparation for an upcoming ARISS contact at the school. Phelps held another demonstration at the school in April 2005 and is a member of the Silver Springs Radio Club which will assist in the upcoming contact. Active in amateur radio, he also recently received a QSL card for a contact with Bill McArthur, KC5ACR.

#### 4. SuitSat Video

On April 18, Kevin Fetter from Brockville, Ontario, Canada videotaped SuitSat as it passed overhead. The video may be found on the Space Weather website, <http://spaceweather.com/>. Select April 28 under View Archives to view the video.

#### 5. Marcos Pontes Pleased with ARISS Contacts

Brazilian astronaut Marcos Pontes, PY0AEB, visited Bauru, Sa?o Paulo, Brazil to give a speech and while there, he presented a gift to Fabiano Moser, PY5RX, to commemorate Pontes' contact with him via amateur radio while he

was on board the ISS. He remarked how nice it was to hear many people calling to him on the radio in his native language and because of this, he never felt alone. See: <http://www.issfanclub.com/node/4958>

#### 6. Commander Active on ARISS Radio

ISS Commander Pavel Vinogradov, RV3BS, has been very active on the ISS Ham radio equipment over Russia. He has been heard making daily voice contacts over Siberia and has also made some contacts over European Russia as well.

[ANS thanks Carol, KB3LKI for the above information]

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SB SAT @ AMSAT \$ANS-127.06

View Re-creation of Huygens Probe Landing on Titan

AMSAT News Service Bulletin 127.06

>From AMSAT HQ SILVER SPRING, MD.

May 7, 2006

To All RADIO AMATEURS

BID: \$ANS-127.06

A recent article posted at <http://www.saturndaily.com> points readers to a link at the NASA Jet Propulsion Labs on-line Planetary Photo Journal featuring a movie, viewable on your computer, of the Descent Imager/Spectral Radiometer camera on board the European Space Agency's Huygens probe landing on Saturn's moon Titan on Jan. 14, 2005.

To view the QuickTime movie visit the JPL site at:  
<http://photojournal.jpl.nasa.gov/catalog/PIA08117>  
(Be patient and allow time for the entire site to load.)

The almost four-hour-long operation of the camera is shown in less than five minutes. The first part of the movie shows how Titan looked to the camera as it acquired more and more images during the probe's descent. Each image has a small field of view, and dozens of images were made into mosaics of the whole scene.

Sounds from a left speaker trace Huygens' motion, with tones changing with rotational speed and the tilt of the parachute. There also are clicks that clock the rotational counter, as well as sounds for the probe's heat shield hitting Titan's atmosphere, parachute deployments, heat shield release, jettison of the camera cover and touchdown.

Sounds from a right speaker go with the Descent Imager/Spectral Radiometer activity. There's a continuous tone that represents the strength of Huygens' signal to Cassini. Then there are 13 different chimes - one for each of instrument's 13 different science parts - that keep time with flashing-white-dot exposure counters. During its descent, the Descent Imager/Spectral Radiometer took 3,500 exposures.

More details can also be read on-line at:  
[http://www.saturndaily.com/reports/Scientists\\_Compile\\_Huygens\\_Descent\\_Movies.html](http://www.saturndaily.com/reports/Scientists_Compile_Huygens_Descent_Movies.html)  
(careful with the line wrap).

[ANS thanks SpaceDaily.com, SaturnDaily.com, and NASA Jet Propulsion Labs for the above information.]

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SB SAT @ AMSAT \$ANS-127.07  
Milestones Reached - Congratulations

AMSAT News Service Bulletin 127.07  
>From AMSAT HQ SILVER SPRING, MD.  
May 7, 2006  
To All RADIO AMATEURS  
BID: \$ANS-127.07

Pop, VU2POP, Secretary of AMSAT India, reminds us to wish Happy Birthday to HAMSAT V0-52 which turns one year old and is still going strong. Thank you to the Indian Space Research Organization for the wonderful gift of HAMSAT.

Bill Pasternak, WA6ITF, Producer of Amateur Radio Newsline says that next week the on-the-air newscast will reach #1500. That translates into 28.8461 years of doing Westlink which became Newsline -- and never missing a deadline or air-date. Newsline frequently features AMSAT events in its broadcasts. Congratulations to the Newsline team and we look forward to sharing lots more of the excitement of Amateur Radio in space!

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

73,  
This week's ANS Editor,  
JoAnne Maenpaa, K9JKM